INSTALLATION MANUAL

AST COMPACT 110 & 150

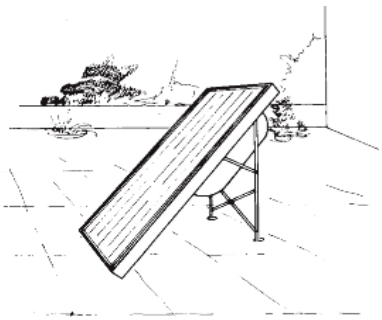
1. Description

Compact system with models that have tanks 100 and 150 liters, is produced by AST Solar Industry in Greece. It is a compact solar system, which means that the collector and the tank is connected to a whole. The system does not require the addition or replacement of fluids antifreeze protection. Furthermore, this liquid can withstand temperatures up to - 60 oC. Each unit has an electrical resistance of 1,5 kw to 4kw

2. Installation of COMPACT

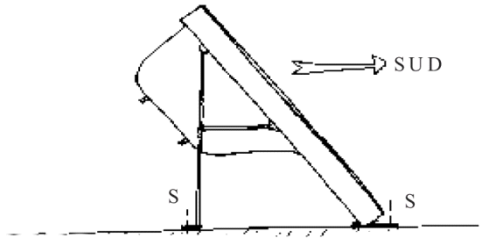
The system is designed for installation in horizontal or inclined surface Roof. Before installation of the solar system determine the best location necessary to ensure:

-Space placement is not obscured
- Minimum distance pipe
- Accessibility for ins pection



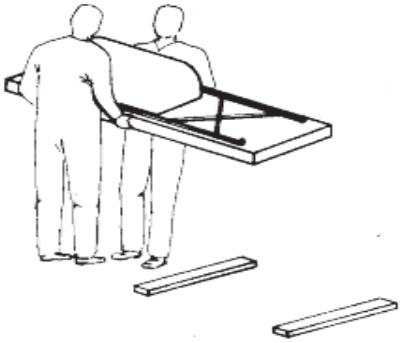
Placement Orientation and inclination

The system must be installed with the plate oriented south.



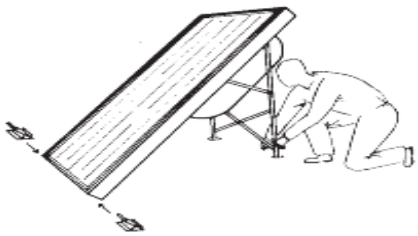
Variation of about 15 degrees does not determine significant differences in hot water. In case of frequent morning fog will be necessary to choose a direction to the southwest. The slope of the standard system is 45 degrees. If installation is made on a roof system you cannot install a slope less than 20-30 degrees.

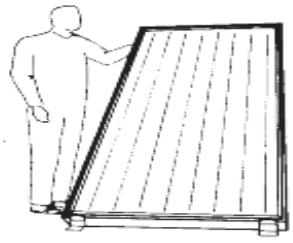
The system has such weight that allows the manipulation of two or three people



1. Turn the system with the window down once you've placed underneath two wood to protect the mosque.

2Lift the base and screw up the stacked (tees).





3. Lift the system upright.

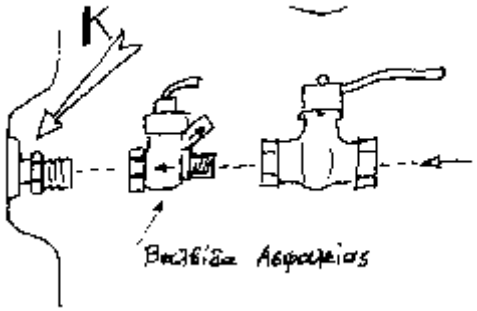
4. Insert the front braces (aluminum) and tighten all screws.

5. Orient the system and screw the roof.

3. Hydraulic connection of the solar system COMPACT

The connection of the hydraulic system is simple. The cold water enters the reservoir from the lower tube (male thread 1 / 2 "), this position is distinguished by a ring of rubber, ¨ blue for cold water and red for" hot water ". The tank is constructed of 316L stainless steel or galvanized sheet-metal.

NOTE: In connection with appliances such as washing machines and dishwashers should make sure they can withstand temperatures of 100-105.



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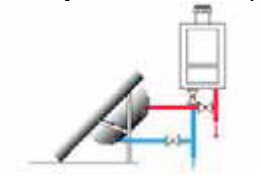
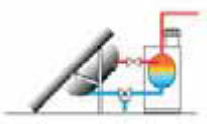
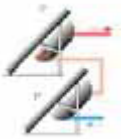
The system can accept multiple connections to devices in series or parallel



In series with the boiler



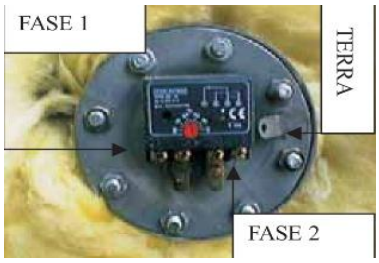
Parallel connection



Two systems in series

Parallel connection

Electrical connections
The power cable for the connection must be insulated tripolar 4mmq. Notes Process connection Remove the metal cover under the tank - Connect the neutral in the thermostat with the contact 4 - Connect the phase in contact with the thermostat 1 - Set the thermostat to lowest temperature (50-55)



Maintenance
Thanks to the heat pipe system the only maintenance required is the magnesium anode, which must be renewed if consumed every 3 years. During the holiday periods especially in the summer it would be good to match the Collector. However, the system cannot be left without supervision. You can check opening the safety of pressure combined with temperature. This is perfectly normal and is due to the flawless operation of the system can reach temperatures of around 105. The system has ventilation holes to remove any condensate in climates with a lot of moisture.

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